



Market Overview

About BroadWorks

Collateral

Presentations

Provider Value

Applications

- IP Centrex
- Hosted PBX
- Enhanced Network
- Voice VPN

Enterprise Value

- Legacy Problems
- VoIP Migration

Network Architecture

System Platform

- System Capabilities

Web Enabling

- Personal
- Group
- Service Provider

Open Standards

- SIP Support

PRODUCT INFORMATION

Network Architecture

A single BroadWorks system is capable of providing hosted communications services in both softswitch and Class 5 network architectures. This capability provides maximum migration flexibility and supports a wide range of deployment strategies.

Softswitch Architecture

In softswitch architecture, the service provider replaces the Class 5 switch with a softswitch, media gateway, and application server such as BroadWorks. The Softswitch provides trunking, SS7 networking, translations, routing and network services, such as local number portability. BroadWorks acts as a peer to a softswitch, using the SIP connection between the two as an "IP Inter Machine Trunk".

Unlike the class 5 switch, the softswitch and BroadWorks are not involved in the transport or switching of the packetized voice stream. However, the softswitch does communicate with BroadWorks for access to the IP Centrex/Hosted PBX features. Also, if the terminating party is part of the IP Centrex/Hosted PBX group, then the softswitch instructs the originating and terminating party to establish communications, and keeps the entire call on the network, and as VoIP. If the terminating party resides outside the IP Centrex/Hosted PBX group, the softswitch interacts via a network gateway, with the Public Switched Telephone Network (PSTN). On the PSTN, a Class 4 or Class 5 switch will handle the transport and switching of voice calls.

Class 5 Extension Architecture

A Class 5 Extension architecture allows service providers to continue to use their existing voice network, while still offering their customers the advantages of VoIP and IP Centrex/Hosted PBX. In this architecture, BroadWorks provides dial tone, calling features, unified messaging, and other features provided by IP Centrex/Hosted PBX applications. The Class 5 switch provides the network functionality such as 911, number portability, billing, and SS7 interconnection.

BroadWorks provides the flexibility to introduce IP voice services without the need to invest softswitch infrastructure. In this architecture, a single BroadWorks system can leverage existing voice infrastructure, and support multiple points of presence (POP). Providers seeking a region-by-region rollout can launch service one POP at a time, starting with smaller capacity gateways as needed.

For financial planning, the Class 5 Extension offers a cost-effective migration to IP voice. BroadWorks allows incremental investments in IP voice assets that limits risk and reduces upfront outlay. BroadWorks not only interconnects with TDM infrastructure but also extends capacity. By moving business customers to IP voice, providers increase capacity as part of a "cap-and-grow" migration.

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 (c) 2003 ProQuest
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 (c) 2003 The Dialog Corp.
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 (c) 2003 IDG Communications
 File 810:Business Wire 1986-1999/Feb 28

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File 813:PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc
? ds

| Set | Items | Description |
|-----|-------|------------------------------------|
| S1 | 250 | CLASS() (5 OR FIVE) ()SOFTSWITCH |
| S2 | 462 | CLASS() (5 OR FIVE) (3N)SOFTSWITCH |
| S3 | 462 | (S1 OR S2) |
| S4 | 344 | S3 AND PY=2001:2003 |
| S5 | 118 | S3 NOT S4 |
| S6 | 42 | RD S5 (unique items) |

6/3,K/1 (Item 1 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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02056819 58611643

Voice and media Gateways: Headed for convergence?

Masud, Sam

Telecommunications v34n8 PP: 17-18 Aug 2000

ISSN: 0278-4831 JRNL CODE: TEC

WORD COUNT: 670

...TEXT: his company is dealing from a position of strength: "Would I rather interface with a **Class 5** switch or **softswitch** ? Given the choice right now I would want to interface with a Class 5 switch...

... its voice gateway into a full-featured media gateway that works in conjunction with a **softswitch** to provide **Class 5** calling features.

Voice gateway architecture.

Like Cleave, Jennifer Stagnaro, CopperCom's vice president of marketing...

6/3,K/2 (Item 2 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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02052398 57822829

Packet/circuit gateway vendors broaden scope

Greene, Tim

Network World v17n32 PP: 31-32 Aug 7, 2000

ISSN: 0887-7661 JRNL CODE: NWW

WORD COUNT: 678

...TEXT: rather than just being a cog in the CLEC's network.

The alternative to a **softswitch** is a standard **Class 5** switch, potentially a multimillion-dollar investment. Softswitch equivalents generally cost onetenth of that. Some CLECs...

6/3,K/3 (Item 3 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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02048261 56729792

Next-gen giving voice switches a makeover

Masud, Sam

Telecommunications v34n7 PP: 36-40 Jul 2000

ISSN: 0278-4831 JRNL CODE: TEC

WORD COUNT: 3214

...TEXT: protocols-ISUP (ISDN User Part) and TCAP (Transaction Capabilities Application Part)-allows the gateway and **softswitch** to interconnect with **Class 5** switches and the SS7 network to deliver TCAP-enabled applications such as 800 number look... Figure 2). And that, he noted, requires vendors like Sonus and others to support certain **Class 5** capabilities in the **softswitch**. CLECs like Global NAPS and Electric Lightwave want to connect next-gen Class 5 switches...

...sets. Now about six or eight of them are offering what might be called a **Class 5 softswitch**. But that is something that will come some time later in our portfolio," said Chapman of Global Crossing, which may begin offering **Class 5 softswitch** services in Q1 2001.

Luckily, Global Crossing has more resources than many service providers. The...

...ready to handle E911 services. "That's a big issue. If you talk to the **Class 5 softswitch** guys, they'll say they've figured out E911, operator services and directory assistance services...

6/3,K/4 (Item 1 from file: 16)

DIALOG(R) File 16:Gale Group PROMT(R)

(c) 2003 The Gale Group. All rts. reserv.

08268322 Supplier Number: 69065118 (USE FORMAT 7 FOR FULLTEXT)

CT PRODUCTS OF THE YEAR 2000.(Buyers Guide)

Computer Telephony, v8, n12, p97

Dec, 2000

Language: English Record Type: Fulltext

Article Type: Buyers Guide

Document Type: Magazine/Journal; Trade

Word Count: 8075

... seriously questioning whether SS7 was relevant for the most interesting and profitable apps. In January, **Class 5** replacement was the **softswitch** killer app. Today, people are asking if we really need to duplicate the zillion-plus...

6/3,K/5 (Item 2 from file: 16)

DIALOG(R) File 16:Gale Group PROMT(R)

(c) 2003 The Gale Group. All rts. reserv.

08075005 Supplier Number: 67371441 (USE FORMAT 7 FOR FULLTEXT)

TollBridge and Syndeo Join Forces to Deliver Carrier Class

Voice-over-Broadband Systems.

Business Wire, p0249

Nov 28, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 854

SANTA CLARA, Calif.--(BUSINESS WIRE)--Nov. 28, 2000

Softswitch and **Class 5** Services Combined for Smooth Migration from PSTN to Next Generation Networks Using Any Broadband Access...

...to-PSTN media gateway for integration with Syndeo's Syion 426(TM), an IP-based **Class 5 softswitch** for integrated voice services. The TollBridge-Syndeo alliance will produce a voice-over-broadband solution...

6/3,K/6 (Item 3 from file: 16)

DIALOG(R) File 16:Gale Group PROMT(R)

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08074935 Supplier Number: 67371359 (USE FORMAT 7 FOR FULLTEXT)

Syndeo and ADC Demonstrate Carrier-Class Voice-Over-Broadband Systems for

MSOs At Western Cable.

Business Wire, p0145

Nov 28, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 569

... VoIP Alternative to
Traditional Local Phone Services with Cuda(TM) 12000 and
Syndeo's Integrated **Softswitch** / **Class 5** Services
An IP-based cable solution that meets or exceeds PSTN standards for
reliability, performance...

...4-line telephony MTA (Multimedia Terminal Adapter). Syndeo's Syion
426(TM), an IP-based **Class 5** /Local Exchange **softswitch**, provides a
full set of integrated NCS-compliant PacketCable residential services, such
as three-way...

6/3,K/7 (Item 4 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2003 The Gale Group. All rts. reserv.

08055561 Supplier Number: 66189357 (USE FORMAT 7 FOR FULLTEXT)

Next-Generation Service Creation. (Internet/Web/Online Service Information)

Michael, Bill

Computer Telephony, v8, n10, p42

Oct, 2000

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 8947

... way regardless of the voice transport being used -- whether it's a
media gateway, a **softswitch**, a **class 5** switch, or what ever it is,
you try to be as generic as possible. The...

6/3,K/8 (Item 5 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

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07954643 Supplier Number: 66470715 (USE FORMAT 7 FOR FULLTEXT)

General Bandwidth To Eliminate Equipment Upgrades During Transition to

Next-Generation Switches.

Business Wire, p0067

Oct 30, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 752

... to deploy existing ATM-based customer premises equipment today,
with the option to utilize traditional **Class 5** or **softswitch**-based IP
voice transport in the core of the network," said Peter Bourne, vice
president...

6/3,K/9 (Item 6 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

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07912088 Supplier Number: 66160901 (USE FORMAT 7 FOR FULLTEXT)
**OpenVoB Selects InterOperability Lab; Sets Date for First Voice Over
Broadband CallFest Test Event.**
Business Wire, p0428
Oct 17, 2000
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1479

... Generation Networks, delivering new multimedia services over IP and
ATM packet network with the OptiCall **Softswitch**. This **Class 5 /4
Softswitch** allows service providers to offer profitable, customized voice
and data services to both business and...

6/3,K/10 (Item 7 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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07850886 Supplier Number: 65142166 (USE FORMAT 7 FOR FULLTEXT)
Marconi. (Company Business and Marketing) (Brief Article)
Telecommunications, v34, n8, p95
August, 2000
Language: English Record Type: Fulltext
Article Type: Brief Article
Document Type: Magazine/Journal; Trade
Word Count: 140

(USE FORMAT 7 FOR FULLTEXT)
TEXT:
...their respective networks because it supports key narrow-band services
during a migration from a **Class 5** switch to a **softswitch**
architecture. Atlantic Telecom, a Glasgow, Scotland-based service provider,
and Gateway Networks of Toronto are...

6/3,K/11 (Item 8 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2003 The Gale Group. All rts. reserv.

07838705 Supplier Number: 65475637 (USE FORMAT 7 FOR FULLTEXT)
**Sylantro Systems Announces Industry's Most Comprehensive High-Value Hosted
Telephony Offering for Service Providers.**
Business Wire, p2320
Sept 26, 2000
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 925

... service providers to become a valued partner to their business
customers.
Sylantro's applications-enabled **softswitch** delivers a **Class 5**
switch end-office alternative with a robust application development
capability that couples softswitch functionality and...

6/3,K/12 (Item 9 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2003 The Gale Group. All rts. reserv.

07834218 Supplier Number: 65455951 (USE FORMAT 7 FOR FULLTEXT)
**empowerTel Networks Launches Next Generation Voice Over Broadband
Technology -- VoBT.**

Business Wire, p2043

Sept 25, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 599

... IP-based revenue generating voice-data services."

With VoBT, empowerTel's Unified Call Exchange (UCX) **Softswitch** provides **Class 5** and Class 4 services including announcements, operator assistance, directory services, emergency services, CLASS and custom...

6/3,K/13. (Item 10 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

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07812400 Supplier Number: 65265618 (USE FORMAT 7 FOR FULLTEXT)

**Copper Mountain Interoperates With Leading Packet-voice Softswitch and
Gateway Vendors to Offer Carriers the Industry's First Distributed Voice
Over DSL Architecture.**

Business Wire, p0003

Sept 18, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1644

... Combined with Copper Mountain's powerful DSL networking technology, Syndeo's unique primary-line-capable **Class 5 softswitch** gives DSL service providers the ability to deliver differentiated, value-added 'versions' of all the...

6/3,K/14 (Item 11 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

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07797271 Supplier Number: 65158625 (USE FORMAT 7 FOR FULLTEXT)

LongBoard to Test Infrastructure and Applications Server At Birch Telecom.

Business Wire, p2289

Sept 12, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 950

... Inc.

LongBoard delivers innovative, telecommunications infrastructure software that allows LECs, ASPs, and wireless operators, utilizing **softswitch** infrastructures and legacy **Class - 5** switches, to provide enhanced voice, data, and multi-media services to their customers and prospects. LongBoard enables basic and advanced telephony and IP services on **softswitch** infrastructure and legacy **Class - 5** central office switches. LongBoard's approach allows customers to leverage their capital and knowledge investments...

6/3,K/15 (Item 12 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

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07797017 Supplier Number: 65158346 (USE FORMAT 7 FOR FULLTEXT)
**LongBoard Opens R&D Facility in Research Triangle Park; New Facility
Targets Top Talent to Support Aggressive Growth.**

Business Wire, p0143

Sept 12, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 392

... Inc.

LongBoard delivers innovative, telecommunications infrastructure software that allows LECs, ASPs, and wireless operators, utilizing **softswitch** infrastructures and legacy **Class - 5** switches, to provide enhanced voice, data, and multi-media services to their customers and prospects. LongBoard enables basic and advanced telephony and IP services on **softswitch** infrastructure and legacy **Class - 5** central office switches. LongBoard's approach allows customers to leverage their capital and knowledge investments...

6/3,K/16 (Item 13 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

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07791331 Supplier Number: 65137378 (USE FORMAT 7 FOR FULLTEXT)
**LongBoard Joins Tellabs' SALIX SoftLink Partners Program; Interoperable
Telephony Infrastructure Solution Offers Advanced VoIP Service to Empower
Subscribers.**

Business Wire, p0593

Sept 11, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 535

... Inc.

LongBoard delivers innovative, telecommunications infrastructure software that allows LECs, ASPs, and wireless operators, utilizing **softswitch** infrastructures and legacy **Class - 5** switches, to provide enhanced voice, data, and multi-media services to their customers and prospects. LongBoard enables basic and advanced telephony and IP services on **softswitch** infrastructure and legacy **Class - 5** central office switches. LongBoard's approach allows customers to leverage their capital and knowledge investments...

6/3,K/17 (Item 14 from file: 16)

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07750400 Supplier Number: 64773930 (USE FORMAT 7 FOR FULLTEXT)
**Interoperability Group Drafts Implementation Guidelines and Test Plan for
First Voice over Broadband CallFest.**

Business Wire, p0039

August 28, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1707

... Generation Networks, delivering new multimedia services over IP and ATM packet network with the OptiCall **Softswitch**. This **Class 5 /4 Softswitch** allows service providers to offer profitable, customized voice and data services to both business and...

6/3,K/18 (Item 15 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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07738054 Supplier Number: 64147170 (USE FORMAT 7 FOR FULLTEXT)
Cable VoIP.
Michael, Bill
Computer Telephony, v8, n8, p36
August, 2000
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 8083

... preparing these products to move from hybrid networks to more complete VoIP implementations. Once a **softswitch** replaces a **Class 5**, the immediate function of a GR-303 gateway becomes, strictly speaking, superfluous. However, given that...

6/3,K/19 (Item 16 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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07705201 Supplier Number: 63839213 (USE FORMAT 7 FOR FULLTEXT)
Next-gen Switches: Giving Voice a Makeover. (Technology Information)
Masud, Sam
Telecommunications, v34, n7, p36
July, 2000
Language: English Record Type: Fulltext Abstract
Document Type: Magazine/Journal; Trade
Word Count: 3189

... protocols--ISUP (ISDN User Part) and TCAP (Transaction Capabilities Application Part)--allows the gateway and **softswitch** to interconnect with **Class 5** switches and the SS7 network to deliver TCAP-enabled applications such as 800 number look...Figure 2). And that, he noted, requires vendors like Sonus and others to support certain **Class 5** capabilities in the **softswitch**. CLECs like Global NAPs and Electric Lightwave want to connect next-gen Class 5 switches...

...sets. Now about six or eight of them are offering what might be called a **Class 5 softswitch**. But that is something that will come some time later in our portfolio," said Chapman of Global Crossing, which may begin offering **Class 5 softswitch** services in Q1 2001.

Luckily, Global Crossing has more resources than many service providers. The...

...ready to handle E911 services. "That's a big issue. If you talk to the **Class 5 softswitch** guys, they'll say they've figured out E911, operator services and directory assistance services...

6/3,K/20 (Item 17 from file: 16)
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07697646 Supplier Number: 64146005 (USE FORMAT 7 FOR FULLTEXT)
Telcordia Call Agent Installed & Running At 11 CTC Communications Offices;
 Class 5 Softswitch Provides VoIP Services Between Offices.
Business Wire, p0142
August 14, 2000
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 660

Telcordia Call Agent Installed & Running At 11 CTC Communications Offices;
 Class 5 Softswitch Provides VoIP Services Between Offices.
... provider Telcordia Technologies, Inc. today announced that the
Telcordia(TM) Call Agent, the first ever **Class 5 softswitch** in
production, has been installed and is running at 11 remote CTC
Communications (NASDAQ NM...

...Call Agent is interoperating with PBXs between 11 CTC sites,
demonstrating the ability of the **Class 5 softswitch** to provide voice
connectivity and features through a VoIP network. The deployment of the
Call...

6/3,K/21 (Item 18 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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07697632 Supplier Number: 64145989 (USE FORMAT 7 FOR FULLTEXT)
Syndeo Names Terry Coss VP of Worldwide Sales.
Business Wire, p0125
August 14, 2000
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 380

... a telecommunications startup now conducting carrier field trials of
its Broadband Services System(TM), a **softswitch** alternative to **Class 5**
switching equipment.
 Reporting to Syndeo founder and CEO Ted Griggs in the newly created
post...

6/3,K/22 (Item 19 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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07675543 Supplier Number: 63900963 (USE FORMAT 7 FOR FULLTEXT)
Telcordia Call Agent Leads Industry With Primary Line Voice Over IP
 Solution' Softswitch Now has More Class 5 Features in Production.
Business Wire, p2098
August 7, 2000
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 685

Telcordia Call Agent Leads Industry With Primary Line Voice Over IP
 Solution' Softswitch Now has More Class 5 Features in Production.
... TM) Call Agent, is now available with new features that make it the
most advanced **Class 5 softswitch** in production supporting primary

line voice service over Internet Protocol (IP).
Telcordia has engineered the...

6/3,K/23 (Item 20 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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07652880 Supplier Number: 63499819 (USE FORMAT 7 FOR FULLTEXT)
Building-Centric Service Providers. (Industry Trend or Event)
Michael, Bill; Muraskin, Ellen
Computer Telephony, v8, n7, p82
July, 2000
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 7906

... sure there are a lot of additional advantages in our trying to
deploy a tree **Class 5 softswitch** and becoming a full IP CLEC.
Actually, I think there's at least as much...

6/3,K/24 (Item 21 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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07600116 Supplier Number: 63630225 (USE FORMAT 7 FOR FULLTEXT)
**Syndeo Forms Professional Services Group to Help Data LECs, ISPs Gain Entry
to Voice Services Market.**
Business Wire, p2232
July 24, 2000
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 656

... will assist users of Syndeo's Broadband Services System(TM), which
combines a carrier-grade **softswitch** platform with broadband **Class 5**
feature sets, in handling the tasks traditionally associated with selling
next-generation local-loop voice...

6/3,K/25 (Item 22 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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07476716 Supplier Number: 62831649 (USE FORMAT 7 FOR FULLTEXT)
**General Bandwidth Shows First Voice over Broadband Gateway at VON Europe
2000; G6 Voice Gateway Designed to Meet ETSI Specifications.**
Business Wire, p0290
June 20, 2000
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 576

... derived Class 5 architectures, but with partners IPVerse and TTI,
the G6 also enables hybrid **Class 5 / softswitch** implementations and
Class 5 replacement architectures.
"The G6 is custom designed for the voice over broadband application,
allowing European...

6/3,K/26 (Item 23 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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07451756 Supplier Number: 62670274 (USE FORMAT 7 FOR FULLTEXT)
**CopperCom. Transforms Access Network with Unique Voice Services Over
Broadband. (Product Announcement)**
Cambridge Telecom Report, pNA
June 12, 2000
Language: English Record Type: Fulltext
Article Type: Product Announcement
Document Type: Newsletter; Trade
Word Count: 1150

... CopperController will transform these circuit and packet switches
into a low-cost replacement for legacy **Class 5** switches.

The CopperController **softswitch** provides call control, supports
both standard and personalized calling features, maintains subscriber
service profiles, and...

6/3,K/27 (Item 24 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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07429393 Supplier Number: 62481885 (USE FORMAT 7 FOR FULLTEXT)
**ipVerse and TollBridge Join to Deliver Carrier Class Voice Over Broadband
Systems.**
PR Newswire, pNA
June 5, 2000
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 682

(USE FORMAT 7 FOR FULLTEXT)
TEXT:
Softswitch and **Class 5** Services Combined for Smooth Migration From
PSTN to

6/3,K/28 (Item 25 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2003 The Gale Group. All rts. reserv.

07412752 Supplier Number: 62418253 (USE FORMAT 7 FOR FULLTEXT)
**Bell Atlantic Awards Milestone Certification to 2nd Century's Network Which
Utilizes PathMinder Softswitch from TeraBridge.**
Business Wire, pl284
May 31, 2000
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 885

... these converged signaling services while also delivering
traditional telephony features and services, which enables the **softswitch**
to replace the **Class 5** switch found in first-generation, circuit-based
networks. PathMinder provides signaling interworking between an SS7...

6/3,K/29 (Item 1 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter
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14173089 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**National On-Site Service Provider Eziaz Chooses Sylanro Systems for
Enhanced Voice Services Offering**

BUSINESS WIRE

December 11, 2000

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 802

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... is truly what has brought these two companies together."
"Sylanro's technology, which provides a **Class 5** -type **softswitch**
with pre-packaged applications is showing the industry that service
providers can offer dynamic new...

6/3,K/30 (Item 2 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter
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13314764 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Frost & Sullivan Provides Analysis of the Latest Developments in the Global
VoIP Market**

BUSINESS WIRE

October 16, 2000

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 821

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... top boxes, PCs and more.
Frost & Sullivan recognizes Sylanro Systems for developing
applications on the **class 5 Softswitch** platform that empower the IP
endpoints, and drive the benefits of enhanced IP applications all...

6/3,K/31 (Item 3 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter
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12784920 (USE FORMAT 7 OR 9 FOR FULLTEXT)

LongBoard Maximizes telecom technologies' INIP Powered(SM) Partner Program
PR NEWSWIRE

September 12, 2000

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 864

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Inc.
LongBoard delivers innovative, telecommunications infrastructure
software that allows LECs, ASPs, and wireless operators, utilizing
softswitch infrastructures and legacy **Class - 5** switches, to provide
enhanced voice, data, and multi-media services to their customers and
prospects. LongBoard enables basic and advanced telephony and IP services
on **softswitch** infrastructure and legacy **Class - 5** central office

switches. LongBoard's approach allows customers to leverage their capital and knowledge investments...

6/3,K/32 (Item 4 from file: 20)
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12684334 (USE FORMAT 7 OR 9 FOR FULLTEXT)
LongBoard Names Eric Zimmerer Executive Director of Business Development
BUSINESS WIRE
September 05, 2000
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 400

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... market-driven software solutions and business tools that allow LECs, ASPs, and wireless operators, utilizing **softswitch** infrastructures and legacy **Class 5** switches, to provide enhanced voice, data, and multi-media services to their customers and prospects. LongBoard enables basic and advanced telephony and IP services on **softswitch** infrastructure and legacy **Class - 5** central office switches. LongBoard's approach allows customers to leverage their capital and knowledge investments...

6/3,K/33 (Item 5 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
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11564669 (USE FORMAT 7 OR 9 FOR FULLTEXT)
ETSI: General Bandwidth shows first voice over broadband gateway at VON Europe 2000; G6 voice gateway designed to meet ETSI specifications
M2 PRESSWIRE
June 19, 2000
JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 618

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... path, enabling service providers to deploy not only derived Class 5 architectures, but also hybrid **Class 5 / Softswitch** implementations and **Class 5** replacement architectures.

"The G6 is custom designed for the voice over broadband application, allowing European...

6/3,K/34 (Item 6 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2003 The Dialog Corp. All rts. reserv.

11352909 (USE FORMAT 7 OR 9 FOR FULLTEXT)
TollBridge and ipVerse Join Forces to Deliver Carrier Class Voice Over Broadband Systems
BUSINESS WIRE
June 05, 2000
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 715

ATLANTA--(BUSINESS WIRE)--June 5, 2000--

**Softswitch and Class 5 Services Combined for Smooth Migration
From PSTN to End-to-End IP Telephony Using Any...**

6/3,K/35 (Item 7 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter
(c) 2003 The Dialog Corp. All rts. reserv.

11351476 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Syndeo Demos Interoperability of Class 5 Softswitch /Services Over New
Copper Mountain Networks DSL Integrated Access Device**

BUSINESS WIRE

June 05, 2000

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 848

(USE FORMAT 7 OR 9 FOR FULLTEXT)

**Syndeo Demos Interoperability of Class 5 Softswitch /Services Over New
Copper Mountain Networks DSL Integrated Access Device**

... R) DSL concentrator.

In the demo, Syndeo's Broadband Services System(TM), an IP-based
Class 5 softswitch with integrated voice services, will use the new
Media Gateway Control Protocol (MGCP) standard to...

6/3,K/36 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

12952528 SUPPLIER NUMBER: 68650942 (USE FORMAT 7 OR 9 FOR FULL TEXT)

VoDSL Gateway. (Industry Trend or Event) (Brief Article)

Telecommunications, 34, 12, 105

Dec, 2000

DOCUMENT TYPE: Brief Article ISSN: 0278-4831 LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 112 LINE COUNT: 00012

... new functionality in its G6 voice gateway that lets service
providers run VoDSL over either **Class 5** -derived, pure **softswitch** or
hybrid architectures. Through the gateway's BLES (broadband loop emulation
services) Proxy feature, BLES...

6/3,K/37 (Item 1 from file: 553)

DIALOG(R)File 553:Wilson Bus. Abs. FullText
(c) 2003 The HW Wilson Co. All rts. reserv.

04294310 H.W. WILSON RECORD NUMBER: BWBA00044310 (USE FORMAT 7 FOR
FULLTEXT)

A little class.

AUGMENTED TITLE: service providers warm up to the Class 5 switch
alternatives; cover story

Miller, Elizabeth Starr

Telephony v. 238 no21 (May 22 2000) p. 40-50

LANGUAGE: English

WORD COUNT: 3093

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

... SOLUTION COST COMPARISON
1 Multiple product system
2 Pricing depends on whether solution contains a **Class 5** switch or
a **softswitch**
No information was supplied for the Lucent 7R/E
Source: Infonetics Research
Sally Bament Convergent...

6/3,K/38 (Item 1 from file: 647)

DIALOG(R)File 647:CMP Computer Fulltext
(c) 2003 CMP Media, LLC. All rts. reserv.

01199800 CMP ACCESSION NUMBER: LTH19990906S0007

Soft Sell

TELE.COM, 1999, n 417, PG8

PUBLICATION DATE: 990906

JOURNAL CODE: LTH LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: Letters

WORD COUNT: 155

COMPANY NAMES (DIALOG GENERATED): **Class 5** CO ; International
Softswitch Consortium ; Xybridge Technologies Inc

6/3,K/39 (Item 1 from file: 696)

DIALOG(R)File 696:DIALOG Telecom. Newsletters
(c) 2003 The Dialog Corp. All rts. reserv.

00733674

Switch Evolution Gains Strength

CableFAX

July 6, 2000 VOL: 11 ISSUE: 131 DOCUMENT TYPE: NEWSLETTER

PUBLISHER: PHILLIPS BUSINESS INFORMATION

LANGUAGE: ENGLISH WORD COUNT: 354 RECORD TYPE: FULLTEXT

(c) PHILLIPS PUBLISHING INTERNATIONAL All Rts. Reserv.

TEXT:

...Telica Inc., a new
company, is introducing a new switch. And it's neither a **class five**
switch nor
a **softswitch**. It's got the properties of both.
While Telica launched itself at the Broadband 2000...

6/3,K/40 (Item 2 from file: 696)

DIALOG(R)File 696:DIALOG Telecom. Newsletters
(c) 2003 The Dialog Corp. All rts. reserv.

00731631

Softswitch Market Headed For Growth - But How Soon?

Cable Europe

June 21, 2000 VOL: 5 ISSUE: 13 DOCUMENT TYPE: NEWSLETTER

PUBLISHER: PHILLIPS BUSINESS INFORMATION

LANGUAGE: ENGLISH WORD COUNT: 900 RECORD TYPE: FULLTEXT

(c) PHILLIPS PUBLISHING INTERNATIONAL All Rts. Reserv.

TEXT:

...which Tellabs acquired in February.

Product Consensus

One thing the industry agrees on is a **softswitch** must carry **Class 5** functionality; at least so it can be fault-tolerant. TeraBridge Technologies Corp. has teamed with...

6/3,K/41 (Item 3 from file: 696)

DIALOG(R)File 696:DIALOG Telecom. Newsletters
(c) 2003 The Dialog Corp. All rts. reserv.

00717043

SOFTSWITCH SHOW-OFFS PUSH INDUSTRY

Intelligent Network News

March 15, 2000 VOL: 10 ISSUE: 6 DOCUMENT TYPE: NEWSLETTER

PUBLISHER: PHILLIPS BUSINESS INFORMATION

LANGUAGE: ENGLISH WORD COUNT: 1086 RECORD TYPE: FULLTEXT

(c) PHILLIPS PUBLISHING INTERNATIONAL All Rts. Reserv.

TEXT:

...In this model, class
five features must reside at the point of presence. If the **softswitch** has
class
five features, they do not need to reside at the point of presence.
"If a **softswitch** has **class five** switch features, you don't need to
put it
into the POP, which is extremely...

6/3,K/42 (Item 4 from file: 696)

DIALOG(R)File 696:DIALOG Telecom. Newsletters
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00714830

LOOKS LIKE A CIRCUIT SWITCH, BUT IT'S GOT DATA SPEEDS

Intelligent Network News

March 1, 2000 VOL: 10 ISSUE: 5 DOCUMENT TYPE: NEWSLETTER

PUBLISHER: PHILLIPS BUSINESS INFORMATION

LANGUAGE: ENGLISH WORD COUNT: 1268 RECORD TYPE: FULLTEXT

(c) PHILLIPS PUBLISHING INTERNATIONAL All Rts. Reserv.

TEXT:

...very active in this space - very interested in implementing
networks based on packet, using the **softswitch** architecture."
Replacing a **class five** switch involves mirroring 1,000-plus features
offered on the PSTN. While data-rooted IP...
?